

A DECOUPLING ELEMENT OF DEFORMABLE MATERIAL IN A POWER TRANSMISSION SYSTEM

ABSTRACT

The invention seeks to improve the transfer function of drive devices such as pulleys and other coupling means, and it proposes creating zones of shear in the inserted deformable material forming a decoupling element. In an embodiment, the decoupling element is made in the form of a ring (2) presenting at least one meshing face (21e, 21i) complementary to a corresponding meshing face (31, 41) formed on the facing support (3, 4), the meshing projections (2e, 2i, 3e, 4i) engaging in one another to take up power transmission torque by working in shear by being blocked against each other during rotation. The invention is applicable to all drive devices including a filtering, damping, or absorbing element, e.g. for use in the automotive industry.